| T = 4 | the | Cla |    | c  |
|-------|-----|-----|----|----|
| In    | ine | Cia | um | s. |

Please add claims 2 - 18, and then cancel claim 1 without Prejudice, as follows. All pending claims, whether or not amended, are presented below for the Examiner's convenience and will replace all prior versions, and listings, of claims in the application:

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## 1. (Canceled)

(New) A method for a computer repairing itself to an operational status at any 2. time during operation, the method comprising the computer-executed steps of:

booting from a first hard disk drive boot device disposed within a main computer hardware box of the computer;

then, in response to receiving a signal indicating a need for repair of the computer during the booting or during any operating state, booting from a second hard disk drive boot device; the second hard disk drive boot device being physically present within the main computer hardware box of the computer prior to receiving the signal indicating a need for repair; and

then repairing software on the first hard disk drive boot device while booted from the second hard disk drive boot device and selectively either: (i) maintaining operation of the computer from the second boot device to restore operational status of the computer during repairing of the software on the first hard disk device, or (ii) changing to operation of the computer from the second boot device to the first boot device to restore operational status of the computer.

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(New) The method of claim 2, wherein the step of repairing software further 3. comprises:

copying software from a device other than the first boot device onto the first boot device.

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- (New) The method of claim 3, wherein the step of copying software further 4. comprises:
  - copying any of application, operating-system and repair-process software.

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(New) The method of claim 3, wherein the step of copying software further 5. comprises:

| 1                                                                          | copyii                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ng any of a boot record, a partition table, and a basic input-output                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2                                                                          | system (BIOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5).                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4                                                                          | 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (New) The method of claim 3, wherein the step of repairing software further                                                                                                                                                                                                                                                                                                                                                                               |
| 5                                                                          | comprises:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6                                                                          | copyii                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ng software from the second boot device onto the first boot device.                                                                                                                                                                                                                                                                                                                                                                                       |
| 7                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 8                                                                          | 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (New) The method of claim 6, wherein the step of repairing software further                                                                                                                                                                                                                                                                                                                                                                               |
| 9                                                                          | comprises:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 10                                                                         | copyi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ng one of template, backup and archive software from a device other than the                                                                                                                                                                                                                                                                                                                                                                              |
| 11                                                                         | first boot dev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | rice onto the first boot device.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 12                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\cdot$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 13                                                                         | 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (New) The method of claim 7, wherein the step of repairing comprises:                                                                                                                                                                                                                                                                                                                                                                                     |
| 14                                                                         | copyi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ng one of template, backup and archive software from the second boot device                                                                                                                                                                                                                                                                                                                                                                               |
| 15                                                                         | onto the first                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | boot device.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 16                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 17                                                                         | 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (New) The method of claim 2, wherein the step of booting from a second boot                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 18                                                                         | device compr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | rises:                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 18<br>19                                                                   | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | rises: hing the second boot device, thereby making the second boot device bootable.                                                                                                                                                                                                                                                                                                                                                                       |
| •                                                                          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 19                                                                         | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 19<br>20                                                                   | switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | hing the second boot device, thereby making the second boot device bootable.                                                                                                                                                                                                                                                                                                                                                                              |
| 19<br>20<br>21                                                             | switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises:                                                                                                                                                                                                                                                                                                       |
| 19<br>20<br>21<br>22                                                       | switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises:                                                                                                                                                                                                                                                                                                       |
| 19<br>20<br>21<br>22<br>23                                                 | switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises: ating the signal indicating a need for repair.  (New) The method of claim 9, wherein the step of booting from a second boot                                                                                                                                                                           |
| 19<br>20<br>21<br>22<br>23<br>24                                           | switch 10. generation 11. device comprise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises: ating the signal indicating a need for repair.  (New) The method of claim 9, wherein the step of booting from a second boot                                                                                                                                                                           |
| 19<br>20<br>21<br>22<br>23<br>24<br>25                                     | switch 10. generation 11. device comprise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises: rating the signal indicating a need for repair.  (New) The method of claim 9, wherein the step of booting from a second boot rises:                                                                                                                                                                   |
| 19<br>20<br>21<br>22<br>23<br>24<br>25<br>26                               | switch 10. generation 11. device comprise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises: rating the signal indicating a need for repair.  (New) The method of claim 9, wherein the step of booting from a second boot rises:                                                                                                                                                                   |
| 19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27                         | switch  10. generation  11. device comprisions logical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises: ating the signal indicating a need for repair.  (New) The method of claim 9, wherein the step of booting from a second boot rises: ally switching the second boot device.  (New) The method of claim 9, wherein the step of booting from a second boot                                                |
| 19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28                   | switch  10. general  11. device comprised to the state of | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises: ating the signal indicating a need for repair.  (New) The method of claim 9, wherein the step of booting from a second boot rises: ally switching the second boot device.  (New) The method of claim 9, wherein the step of booting from a second boot                                                |
| 19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29             | switch  10. general  11. device comprised to the state of | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises: ating the signal indicating a need for repair.  (New) The method of claim 9, wherein the step of booting from a second boot rises:  ally switching the second boot device.  (New) The method of claim 9, wherein the step of booting from a second boot rises:                                        |
| 19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29             | switch  10. general  11. device comprised to the state of | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises: ating the signal indicating a need for repair.  (New) The method of claim 9, wherein the step of booting from a second boot rises:  ally switching the second boot device.  (New) The method of claim 9, wherein the step of booting from a second boot rises:                                        |
| 19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31 | switch  10. general  11. device compression logical  12. device compression physical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | hing the second boot device, thereby making the second boot device bootable.  (New) The method of claim 9, wherein the step of switching comprises: ating the signal indicating a need for repair.  (New) The method of claim 9, wherein the step of booting from a second boot rises: ally switching the second boot device.  (New) The method of claim 9, wherein the step of booting from a second boot rises: cally switching the second boot device. |

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14. (New) The method of claim 12, wherein the step of physically switching comprises:

turning on or off the power to a data storage device to be switched.

15. (New) A computer system comprising:

a communication device for communicating over a communications link to a second computer system,

a port for communicatively coupling said computer system and said communication device over a bus having a plurality of data lines; and

a switch coupled within said data line selected from said plurality of data lines for enabling and disabling said communication device.

- 16. (New) The computer system of claim 15 wherein said communication device is a network interface card disposed within a main computer hardware box and said switch is affixed to said network interface card.
- 17. (New) A method for a computer repairing itself to an operational status at any time during operation, the method comprising the computer-executed steps of:

booting from a first hard disk drive boot device disposed within a main computer hardware box of the computer;

then, in response to receiving a signal indicating a need for repair of the computer during the booting or during any operating state, booting from a second hard disk drive boot device; the second hard disk drive boot device being physically present within the main computer hardware box of the computer prior to receiving the signal indicating a need for repair; and

then repairing software on the first hard disk drive boot device while booted from the second hard disk drive boot device and selectively either: (i) maintaining operation of the computer from the second boot device to restore operational status of the computer during repairing of the software on the first hard disk device, or (ii) changing to operation of the computer from the second boot device to the first boot device to restore operational status of the computer.

18. (New) The method of claim 17, wherein:

(ii) copying software from the second boot device onto the first boot device, and either or both of copying one of template, backup and archive software from a device other than the first boot device onto the first boot device and copying one of template, backup and archive software from the second boot device onto the first boot device;

the step of booting from a second boot device comprises switching the second boot device, thereby making the second boot device bootable, and the step of switching comprises generating the signal indicating a need for repair;

the signal is generated by a user altering the state of a physical switch different from an on-off switch of the computer and exposed on an exterior surface of the main computer hardware box of the computer;

the step of automatically repairing software comprises automatically repairing software on the first boot device without further direction from the user including repairing software on the first boot device according to preset preferences; the repairing according to preset preferences includes repairing according to whether to recover data, to run a virus check, to reformat the first boot device, to revert to a backup, to run diagnostics;

the step of repairing software further includes resetting parameters in a persistent memory; and then copying software onto the first boot device;

wherein before the step of booting from the second boot device, installing software onto the second boot device, the step of installing software onto the second boot device comprises one procedure from the following set of procedures: installing software onto the second boot device, copying installed software onto the second boot device copying installation software onto the second boot device, and writing onto the second boot device a version of an operating environment running as a result of the boot from the first boot device.

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2. A method for a computer repairing itself to an operational status at any time during operation, the method comprising the computer-executed steps of:

booting from a first hard disk drive boot device disposed within a main computer hardware box of the computer;

then, in response to receiving a signal indicating a need for repair of the computer during the booting or during any operating state, booting from a second hard disk drive boot device; the second hard disk drive boot device being physically present within the main computer hardware box of the computer prior to receiving the signal indicating a need for repair; and

then repairing software on the first hard disk drive boot device while booted from the second hard disk drive boot device and selectively either: (i) maintaining operation of the computer from the second boot device to restore operational status of the computer during repairing of the software on the first hard disk device, or (ii) changing to operation of the computer from the second boot device to the first boot device to restore operational status of the computer.

- 3. The method of claim 2, wherein the step of repairing software further comprises:
- copying software from a device other than the first boot device onto the first boot device.

- 4. The method of claim 3, wherein the step of copying software further comprises:
  - copying any of application, operating-system and repair-process software.

- 5. The method of claim 3, wherein the step of copying software further comprises:
- 30 copying any of a boot record, a partition table, and a basic input-output 31 system (BIOS).

6. The method of claim 3, wherein the step of repairing software further comprises:

| 1  | copying software from the second boot device onto the first boot device.          |
|----|-----------------------------------------------------------------------------------|
| 2  |                                                                                   |
| 3  | 7. The method of claim 6, wherein the step of repairing software further          |
| 4  | comprises:                                                                        |
| 5  | copying one of template, backup and archive software from a device other than the |
| 6  | first boot device onto the first boot device.                                     |
| 7  |                                                                                   |
| 8  | 8. The method of claim 7, wherein the step of repairing comprises:                |
| 9  | copying one of template, backup and archive software from the second boot device  |
| 10 | onto the first boot device.                                                       |
| 11 |                                                                                   |
| 12 | 9. The method of claim 2, wherein the step of booting from a second boot device   |
| 13 | comprises:                                                                        |
| 14 | switching the second boot device, thereby making the second boot device bootable. |
| 15 |                                                                                   |
| 16 | 10. The method of claim 9, wherein the step of switching comprises:               |
| 17 | generating the signal indicating a need for repair.                               |
| 18 |                                                                                   |
| 19 | 11. The method of claim 9, wherein the step of booting from a second boot device  |
| 20 | comprises:                                                                        |
| 21 | logically switching the second boot device.                                       |
| 22 |                                                                                   |
| 23 | 12. The method of claim 9, wherein the step of booting from a second boot device  |
| 24 | comprises:                                                                        |
| 25 | physically switching the second boot device.                                      |
| 26 |                                                                                   |
| 27 | 13. The method of claim 12, wherein the step of physically switching comprises:   |
| 28 | altering identification jumpers of a data storage device to be switched.          |
| 29 |                                                                                   |
| 30 | 14. The method of claim 12, wherein the step of physically switching comprises:   |
| 31 | turning on or off the power to a data storage device to be switched.              |
| 32 |                                                                                   |
| 22 | 15 A computer system comprising:                                                  |

| 1  | a communication device for communicating over a communications link to a second                |
|----|------------------------------------------------------------------------------------------------|
| 2  | computer system,                                                                               |
| 3  | a port for communicatively coupling said computer system and said communication                |
| 4  | device over a bus having a plurality of data lines; and                                        |
| 5  | a switch coupled within said data line selected from said plurality of data lines for          |
| 6  | enabling and disabling said communication device.                                              |
| 7  |                                                                                                |
| 8  | 16. The computer system of claim 15 wherein said communication device is a                     |
| 9  | network interface card disposed within a main computer hardware box and said switch is         |
| 10 | affixed to said network interface card.                                                        |
| 11 |                                                                                                |
| 12 | 17. A method for a computer repairing itself to an operational status at any time              |
| 13 | during operation, the method comprising the computer-executed steps of:                        |
| 14 | booting from a first hard disk drive boot device disposed within a main computer               |
| 15 | hardware box of the computer;                                                                  |
| 16 | then, in response to receiving a signal indicating a need for repair of the computer           |
| 17 | during the booting or during any operating state, booting from a second hard disk drive boot   |
| 18 | device; the second hard disk drive boot device being physically present within the main        |
| 19 | computer hardware box of the computer prior to receiving the signal indicating a need for      |
| 20 | repair; and                                                                                    |
| 21 | then repairing software on the first hard disk drive boot device while booted from the         |
| 22 | second hard disk drive boot device and selectively either: (i) maintaining operation of the    |
| 23 | computer from the second boot device to restore operational status of the computer during      |
| 24 | repairing of the software on the first hard disk device, or (ii) changing to operation of the  |
| 25 | computer from the second boot device to the first boot device to restore operational status of |
| 26 | the computer.                                                                                  |
| 27 |                                                                                                |
| 28 | 18. The method of claim 17, wherein:                                                           |
| 29 | the step of repairing software further comprises:                                              |
| 30 | (i) copying software from a device other than the first boot device onto the first boot        |
| 31 | device, and the step of copying software further comprises copying any of application,         |

any of a boot record, a partition table, and a basic input-output system (BIOS);

operating-system and repair-process software, wherein such copying may include copying

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(ii) copying software from the second boot device onto the first boot device, and either or both of copying one of template, backup and archive software from a device other than the first boot device onto the first boot device and copying one of template, backup and archive software from the second boot device onto the first boot device;

the step of booting from a second boot device comprises switching the second boot device, thereby making the second boot device bootable, and the step of switching comprises generating the signal indicating a need for repair;

the signal is generated by a user altering the state of a physical switch different from an on-off switch of the computer and exposed on an exterior surface of the main computer hardware box of the computer;

the step of automatically repairing software comprises automatically repairing software on the first boot device without further direction from the user including repairing software on the first boot device according to preset preferences; the repairing according to preset preferences includes repairing according to whether to recover data, to run a virus check, to reformat the first boot device, to revert to a backup, to run diagnostics;

the step of repairing software further includes resetting parameters in a persistent memory; and then copying software onto the first boot device;

wherein before the step of booting from the second boot device, installing software onto the second boot device, the step of installing software onto the second boot device comprises one procedure from the following set of procedures: installing software onto the second boot device, copying installed software onto the second boot device copying installation software onto the second boot device, and writing onto the second boot device a version of an operating environment running as a result of the boot from the first boot device.